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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
|-----------------------|-------------|----------------------|-----------------------------------|-----------------|--|
| 10/701,036 | 11/04/2003 | Dragan P. Petrovic | H0004603/SYS-P-1090 6143 US 83 | | |
| 7590 12/21/2004 | | | EXAMINER | | |
| Patent Services Group | | | LARKIN, DANIEL SEAN | | |
| Honeywell Inte | | ART UNIT | PAPER NUMBER | | |
| Morristown, N. | J 07962 | 2856 | | | |
| | | | DATE MAILED: 12/21/200 | 4 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application | on No. | Applicant(s) | | | | |
|---|---|---|---|--|------------|--|--|--|
| Office Action Summary | | 10/701,03 | 36 | PETROVIC ET AL. | | | | |
| | | Examiner | | Art Unit | | | | |
| | | Daniel S. I | _arkin | 2856 | | | | |
| Period fo | The MAILING DATE of this communication or Reply | appears on the | cover sheet with the c | orrespondence address | S | | | |
| THE - Exte after - If the - If NC - Failt Any | ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may be adopted the manufacture of the | N. R 1.136(a). In no eve reply within the statu riod will apply and wil atute, cause the appl | ent, however, may a reply be tin story minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE | nely filed s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133). | nication. | | | |
| Status | | | | | | | | |
| 1)[| Responsive to communication(s) filed on _ | | | | | | | |
| 2a)[☐ | This action is FINAL . 2b)⊠ T | This action is no | on-final. | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposit | ion of Claims | | | | | | | |
| 5) 6) 7) | Claim(s) <u>1-45</u> is/are pending in the application 4a) Of the above claim(s) is/are without claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-45</u> are subject to restriction and/ | drawn from cor | | | | | | |
| Applicat | ion Papers | | | | | | | |
| 9)[| The specification is objected to by the Exam | niner. | | | | | | |
| 10) | 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | | |
| | Applicant may not request that any objection to t | | • | , , | | | | |
| 11)□ | Replacement drawing sheet(s) including the con The oath or declaration is objected to by the | • | * ., | | ` ' | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | |
| a) | Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur See the attached detailed Office action for a | ents have been ents have been priority docume reau (PCT Rule | n received. n received in Applicati ents have been receive e 17.2(a)). | ion No ed in this National Stag | l e | | | |
| Attachmen | t(s) | | | | | | | |
| | e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) | | 4) Interview Summary Paper No(s)/Mail Da | | | | | |
| 3) 🔲 Infor | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ or No(s)/Mail Date | | | ate Patent Application (PTO-152) |) · | | | |

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-4, drawn to a detector, classified in class 73, subclass 31.05.
 - II. Claims 5-9, drawn to a gas detector, classified in class 73, subclass 31.05.
 - III. Claims 10-19, drawn to a gas detector, classified in class 73, subclass 31.05.
 - IV. Claims 20-39, drawn to a gas detector, classified in class 73, subclass 31.05.
 - V. Claims 40-45, drawn to a gas detector, classified in class 73, subclass 31.05.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group II are not found in Group I. The subcombination has separate utility such as an NDIR gas detector, which utilizes a reflecting portion, which is not required by the claims of Group I, which also utilizes an ambient condition sensor.

Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group III are not found in Group I. The subcombination has separate utility such as a gas detector having a housing with at least one gas entry port and at one condensing element positioned between a filter and the sensing chamber, which is not required of the condenser utilized by the claims of Group I, which also utilizes an ambient condition sensor.

Inventions I and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group IV are not found in Group I. The subcombination has separate utility such as a gas detector having a first condensing element adjacent to a sensing cell, wherein the condensing element is provided with openings, which is not required of the condenser utilized by the claims of Group I, which also utilizes an ambient condition sensor.

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Inventions I and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group V are not found in Group I. The subcombination has separate utility such as an exhaust gas detector having a symmetrical sensing and reference region, which is not required by the claims of Group I, which utilizes an ambient condition sensor.

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Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group III are not found in Group II. The subcombination has separate utility such as a gas detector having a housing with at least one gas entry port and at one condensing element positioned between a filter and the sensing chamber, which is not required of the condenser utilized by the claims of Group II, which also utilizes a reflecting portion.

Inventions II and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and Art Unit: 2856

(2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group IV are not found in Group II. The subcombination has separate utility such as a gas detector having a first condensing element adjacent to a sensing cell, wherein the condensing element is provided with openings, which is not required of the condenser utilized by the claims of Group II, which also utilizes a reflecting portion.

Inventions II and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group V are not found in Group II. The subcombination has separate utility such as an exhaust gas detector having a symmetrical sensing and reference region, which is not required by the claims of Group II, which utilizes a reflecting portion.

Inventions III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group IV

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are not found in Group III. The subcombination has separate utility such as a gas detector having a first condensing element adjacent to a sensing cell, wherein the condensing element is provided with openings, which is not required of the condenser utilized by the claims of Group III.

Inventions III and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group V are not found in Group III. The subcombination has separate utility such as an exhaust gas detector having a symmetrical sensing and reference region and a condenser in the fluid flow path, but a condenser which is not placed between a filter and a sensing chamber, as required by the claims of Group III.

Inventions IV and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because all of the limitations of Group V are not found in Group IV. The subcombination has separate utility such as an exhaust gas detector having a reference cell and a condenser in the fluid flow path, but a

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condenser which does not allow fluid to flow through, as required by the claims of Group IV.

- 2. Because these inventions are distinct for the reasons given above and the search required for one Group is not necessarily required for another Group, restriction for examination purposes as indicated is proper. Looking for each claim nuance would create a burden for the examiner.
- 3. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Larkin whose telephone number is 571-272-2198. The examiner can normally be reached on 8:00 AM 5:00 PM Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Larkin AU 2856 16 December 2004

> DANIEL S. LARKIN PRIMARY EXAMINER